

Our first Coastal Plain stations. See p. 489.

ARABIS LAEVIGATA (Muhl.) Poir. Local range extended eastward into YORK COUNTY: rich wooded ravine by York River, above Yorktown, no. 12,086. See p. 505.

A. CANADENSIS L. Now added to the remarkable assemblage of inland and upland types in SURRY COUNTY: dry wooded upper slopes of ravines west of Claremont, no. 12,660. See p. 521.

SEDUM TERNATUM Michx. To the relatively few known stations on the Coastal Plain add one in SUSSEX COUNTY: on a steep slope, woods by Nottoway River, southwest of Lamb's, no. 12,357.

(To be continued)

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## NOTES FROM THE UNIVERSITY OF MINNESOTA HERBARIUM II<sup>1</sup>

JOHN B. MOYLE<sup>2</sup>

### EXTENSIONS OF RANGES AND ADDITIONS TO THE MINNESOTA FLORA

TYPHA ANGUSTIFOLIA L. Of scattered occurrence in the harder-water areas, especially in the southwestern part of the State. Most of the following collections represent isolated patches occurring in stands of *T. latifolia* L. Although *T. angustifolia* was reported for Minnesota by Upham in 1887<sup>3</sup> and Holzinger in 1896,<sup>4</sup> no collections have been available until recently. HUBBARD Co.: stream channel, Shallow L., Moyle 3425. KANDIYOHI Co.: shores of L. Calhoun, Moyle 3192. MARTIN Co.: School Section L. near Fairmont, Moyle 3425. MURRY Co.: Valhalla Bay, L. Shetek, Moyle 3143. RAMSEY Co.: Birch L., W. J. Breckenridge Oct. 23, 1937.

SCIRPUS HETEROCHAETUS Chase. Occasional throughout the State but most abundant southwestward in prairie lakes and pools. In Minnesota this species seldom occurs in pure stands but is usually associated with *S. acutus* Muhl. or *S. validus* Vahl. AITKIN Co.: Big Sandy L., P. K. Nurnberger P2851; Backwater L., Hotchkiss & Jones 4100. BROWN Co.: L. Hanska, Hotchkiss & Jones 3949. CHIPPEWA Co.: common in Drywood L., Moyle 3212. FREEBORN Co.: prairie swale, Moyle 2902.

<sup>1</sup> Specimens cited are all in the Univ. of Minn. Herbarium. All specimens of a given species or variety are cited. The counties mentioned are all in Minnesota.

<sup>2</sup> Aquatic Biologist, Minn. Dept. Conserv., Div. of Game and Fish, St. Paul.

<sup>3</sup> Upham, Cat. of the Flora of Minn.; Geol. and Nat. Hist. Surv. of Minn. Part VI of Ann. Rep. for 1883.

<sup>4</sup> Holzinger, Minn. Bot. Stud. 1: 519; 1896.

LAC QUI PARLE Co.: muddy swamp near Lac qui Parle, *Moyle* 3193. LAKE OF THE WOODS Co.: Lake of the Woods, *MacMillan & Sheldon* 596. POPE Co.: small pool N. E.  $\frac{1}{4}$  Langhei Twp., *Hotchkiss & Jones* 4005.

SCIRPUS SUBTERMINALIS Torr. Fairly common in soft-water lakes and streams of northeastern Minnesota, but until recently represented by one collection. CLEARWATER Co.: Squaw L. in 4 feet of water, *M. L. Grant* 6472. COOK Co.: Temperance R., abundant on sand and rock in 3 feet of water, *C. B. Reif* A21; Brule R., common in 2 feet of water on rock, *C. B. Reif* A28. LAKE Co.: Baptism R., common in ponded water of East Branch, *Moyle* 3448; Spring L., on mud in 1 to 3 feet of water, *W. G. Moore*. ST. LOUIS Co.: lake at the head of Dark Horse Cr., *Moyle* 2537. STEARNS Co.: St. Cloud, *J. Campbell* 82.

POLYGONUM COCCINEUM Muhl. var. RIGIDULUM (Sheldon) Stanf. AITKIN Co.: Big Sandy L., in 3 feet of water on sand, *Moyle* 3156; Big Sandy L., *P. K. Nurnberger* 2852, 2837. CASS & ITASCA Co.: Winnibigoshish L., in 3 feet of water on sandy muck, *L. L. Smith* 481, 482. CHIPPEWA Co.: Mud Lake, common in newly flooded areas in 3 feet of water on mud, *Moyle* 3527; Chippewa R., *G. & L.* June 28, 1885. CHISAGO Co.: Cut Foot Sioux L., rare in 1 foot of water on sand, *L. L. Smith* 10, 11, 12. KANABEC Co.: Mora, *Sheldon* 3151. NICOLLET Co.: Nicollet, *C. A. Ballard* 1018. ST. LOUIS Co.: L. Kabetogama, in 4 to 5 feet of water in heavy waves, *Moyle* 2615.

In Minnesota this variety is usually found in flowage areas or in lakes subject to considerable fluctuation in water level or heavy wave action. The floating stem with its inflated and upward tapering internodes allows it to flower in water as deep as five feet. Field observations suggest that it is probably an extreme ecological development of forma *natans* (Wiegand) Stanf. which replaces var. *rigidulum* in shallow pools and along sheltered lake margins. The diagnostic differences noted in the shape of the leaf blades by Stanford<sup>1</sup> do not hold for the Minnesota material. The lower leaves of both aquatic forms are usually cordate or truncate at the base. The only consistent difference is the presence of the inflated internodes in var. *rigidulum*. The type specimen of *P. rigidulum* Sheldon, *Sheldon* 3151, has seven leaves, two of which have cordate, two truncate and three rounded or tapering bases.

STELLARIA AQUATICA (L.) Scop. Previously reported from the vicinity of Duluth<sup>2</sup> and recently collected from several stations

<sup>1</sup> Stanford, RHODORA 27, 156; 1925.

<sup>2</sup> Lakela, RHODORA 40, 280; 1938.

in central Minnesota. MILLE LACS Co.: bank of Rum R. at Milaca, growing partly submerged on sand and muck, *Moyle* 3311, 3314; Robinson Brook, growing on edge of stream and in shallow water, *Moyle* 3313; along West Branch of Rum R. near Foreston, *Moyle* 3320.

SILENE CSEREI Baumg. This Eurasian adventive, which has been previously reported from Cook Co.,<sup>1</sup> has been recently taken at three additional stations. BENTON Co.: bank of Mississippi R. at Sartell, *Moyle* 3337. HUBBARD Co.: roadside near Kabekona R., *Moyle* 2151; roadside between Itasca Park and Park Rapids, *Moyle* 1435.

SPERGULARIA RUBRA (L.) J. & C. Presl. A single collection from CLEARWATER Co.: weed in sandy soil, nursery near Alida, *Moyle* 2736.

RANUNCULUS TRICHOPHYLLUS var. ERADICATUS (Laestadius) Drew. Occasional in the soft waters of the Archaean rock region north of L. Superior. COOK Co.: Temperance R., scarce on sand and rocks in 1 foot of water, *C. B. Reif* 2; Mark Cr., abundant on muck in 1 foot of water, *C. B. Reif* 24; Brule R., *C. B. Reif* Aug. 1938. LAKE Co.: Surprise L., *U. S. For. Serv.* Sept. 17, 1935; Heart L., *U. S. For. Serv.* Aug. 21, 1935.

AMMANNIA COCCINEA Rottb. Previously known from one collection in TRAVERSE Co.: Browns Valley, *Sheldon* 7014. Recently found in CHIPPEWA Co.: occasional on silty shore of Watson Sag, Lac qui Parle, *Moyle* 3506.

MYRIOPHYLLUM ALTERNIFLORUM DC. Not previously reported, but fairly common in soft-water lakes and streams of the northeastern part of the State. COOK Co.: Temperance R., on sand and rock in 2 and 3 feet of water, *C. B. Reif* A16, A4; Bearskin L., *U. S. For. Serv.* Aug. 28, 1935. LAKE Co.: Spring L., on mud in 10 inches of water, *W. G. Moore* V508; East Branch Baptism R., ponded water on muck, *Moyle* 3540; Grass L. (T. 60 R. 9W), *U. S. For. Serv.* Aug. 9, 1935; Lena L., *U. S. For. Serv.* Aug. 6, 1935. ST. LOUIS Co.: Bates L., *M. Morse* 1937.

MYRIOPHYLLUM FARWELLII Morong. Not previously reported. LAKE Co.: Nine Mile Cr., Manitou R. system, in 1 foot of slow water, *Moyle* 3435a; a terrestrial form was taken on mud banks at the preceding location, *Moyle* 3435b. ST. LOUIS Co.: common in channel between King and Coyote Lakes, on mud in 1 foot of water, *Moyle* 3513.

MYRIOPHYLLUM TENELLUM Bigel. Known from two stations. PINE Co.: Sturgeon L., *W. S. Cooper* Aug. 22, 1930. ST. LOUIS Co.: Auto Club L. near Virginia, *Arthur Horn* July 14, 1936.

MYOSOTIS LAXA Lehm. Only recently collected in Minnesota. CROW-WING Co.; bank of Crow-Wing R. near Pillager, *Moyle* 3343. WADENA Co.: moist bank of Leaf R., *Moyle* 3338.

<sup>1</sup> Fassett, *RHODORA* 36, 352; 1934.

*SOLANUM CAROLINENSE* L. Not previously reported. WRIGHT Co.: in large patches on the bank of the Crow R. near Rockford, *Moyle* 3391.

*LINARIA GENISTAEFOLIA* (L.) Mill. POPE Co.: well established along road near Glenwood, *Moyle* 3140.

MINNESOTA DEPARTMENT OF CONSERVATION, St. Paul

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*SALVINIA ROTUNDIFOLIA* IN MASSACHUSETTS.—On August 13 of this year Miss Margery Coffin brought a small aquatic to the Gray Herbarium for identification in connection with her work of disguising water-surfaces for the Camouflage Project. This proves to be the tropical *Salvinia rotundifolia* Willd. with its characteristic large free-branched trichomes. In his monograph of the genus in *Hedwigia*, Herzog cites no material north of Mexico, although there are specimens from the southern United States in the Gray Herbarium. Miss Coffin says that the species is well established on a pond in Foxboro, Massachusetts, where it doubtless started from material thrown out of an aquarium.—L. B. SMITH, Gray Herbarium.

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THE SPELLING "PENSYLVANICA" AGAIN.—In view of the recent discussions of the correct spelling of the specific name, it is worth recording that Dr. George Neville Jones sends in a clipping from a paper with a photograph of the "Liberty Bell" bearing in an English context the name of the state, PENSYLVANIA, and the comment "If the inscription on the LIBERTY BELL is taken as an authority, then all of us are spelling Pennsylvania wrong!"—EDS.

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